

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of claims:

1. (previously presented) An isolated trehalose synthase protein comprising the amino acid sequence as recited in SEQ ID NO: 2.

2. (previously presented) An isolated trehalose synthase gene comprising the nucleotide sequence as recited in SEQ ID NO: 1.

3. (Original) A recombinant plasmid containing the trehalose synthase gene of claim 1.

4. (Original) The recombinant plasmid according to claim 1 which is recombinant plasmid pCJ122.

5. (previously presented) A transformed *E. coli* with the recombinant plasmid of claim 1.

6. (previously presented) The transformed *E. coli* according to claim 5 in which the recombinant plasmid is pCJ122.

7. (Original) A process for producing trehalose which comprises reacting the trehalose synthase enzyme of claim 1 with maltose solution to obtain trehalose.

8. (Previously Presented) A process for producing trehalose which comprises lysing the transformed *E. coli* of claim 5, centrifuging the lysed bacteria, and reacting the resulting supernatant with maltose solution to obtain trehalose.

9. (Currently Amended) An isolated microorganism *Pseudomonas stutzeri* CJ38 that produces trehalose from maltose.